| Index of | Claims |
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| Application No. | Applicant(s) |  |
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| 10/051,843      | YOUNG ET AL. |  |
| Examiner        | Art Unit     |  |
| Joseph F Murphy | 1646         |  |

| <b>V</b> | Rejected | _ | (Through numeral)<br>Cancelled |
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|----------|-------------|-----------------|--|--------------|--|-------------------------------------|-------------------|-------------------------------------|----|---|-------|--------------|-------------|----------|---|--|-------------------------------------|-----------|----------|----------|---------|----------|-----|-------|----------|--------|---------|---------------|---|--------|--------|----------|---------------|----------------|
|          | <del></del> | ξ               |  |              |  |                                     |                   |                                     |    |   |       |              | <del></del> | 1.27 W   |   | l                                      |                                     |           |          |          |         | 1        |     |       | a        |        |         | 1             |   |        |        |          |               |                |
| Final    | Original    | -27-05r         |  |              |  |                                     |                   | ١٠                                  |    |   |       | Final        | Original    | 3        |   |  |                                     |           | - 1      |          |         | -        | . 1 | Final | Original |        |         |               |   |        |        |          |               |                |
| iĒ       | Ĕ           | 7               |  |              |  |                                     |                   |                                     |    |   |       | 這            | Ĕ           | 4        |   |  |                                     |           |          | ı        |         |          |     | ίĪ    | )rić     |        |         | ĺ             |   |        |        |          | l             |                |
|          |             | <u> </u>        | <u>.                                    </u> |              |  |                                     |                   |                                     | L_ |   | . !   |              |             | 7        | 4   |  |                                     |           |          |          |         |          |     |       |          |        |         |               |   |        |        |          | _             | لـــا          |
|          | 1           |                 |  |              |  |                                     |                   |                                     |    |   |       |              | 54          | \        |   |  |                                     |           |          |          | $\perp$ |          |     |       | 101      |        |         |               |   |        |        |          | $\Box$        | Ш              |
|          | 2           |                 |  |              |  |                                     |                   | <u> </u>                            |    |   |       |              | 52          | 2        | u   |  |                                     |           |          |          |         |          |     |       | 102      |        |         |               |   |        |        |          |               |                |
|          | 3           |                 | <u></u>                                      | L            |  |                                     |                   |                                     |    |   |       |              | 53          | L        |   |  |                                     | Ш         |          |          |         | _        |     |       | 103      |        |         | ╛             |   |        |        | $\Box$   |               | Ш              |
|          | 4           |                 |  |              |  |                                     |                   |                                     |    |   |       |              | 54          | Ц        | L   |  |                                     | Ш         |          |          |         | ┙        | . : |       | 104      |        | $\perp$ |               |   |        | Ш      | $\Box$   | _             | Ш              |
|          | 5           |                 |  |              |  | <u></u>                             | <u>L</u>          | _                                   | L  | _ |       |              | 55          | Ц        | <u> </u>  |  |                                     | Ш         |          | $\perp$  |         | ╝        |     |       | 105      |        |         | _             |   |        |        |          |               | Ш              |
|          | 6           |                 | 乚  | L            |  | 匚                                   | L                 |                                     | L  |   |       |              | 56          | Ц        |   |  | 匚                                   |           |          | _        | _       | ╝        |     |       | 106      | Ц      |         | $\perp$       |   |        |        |          | _             | Ш              |
|          | 7           | L               |  |              |  |                                     | L                 |                                     |    |   | -5    |              | 57          | Ц        | L   | L                                      | L                                   |           | _        | _        |         | ᆚ        |     |       | 107      |        |         |               |   |        |        | ·        |               | Ш              |
| L        | 8           |                 | L  |              |  |                                     |                   | <u>L</u>                            |    |   |       |              | 58          | Ш        | _   | _                                      | <u> </u>                            | Ш         |          | _        | $\perp$ | ╝        |     |       | 108      | Ц      | $\perp$ | _             |   |        |        |          | _             |                |
|          | 9           | L               | L  | L            |  | L                                   | L                 |                                     | L_ |   |       |              | 59          | Ц        | ┖   |  | L                                   | Ш         |          | _        | $\perp$ | _        | . " |       | 109      | Ш      |         |               |   |        |        |          |               |                |
| L_       | 10          | L               | 乚  |              |  |                                     | L                 |                                     |    |   |       |              | 60          | Ц        |   | L                                      | _                                   | Ш         | _        | _        |         | _        |     |       | 110      |        | $\perp$ |               |   |        |        |          | _             | Ш              |
|          | 11          |                 |  | <u> </u>     | Ļ                                      |                                     | L                 | <u> </u>                            | Щ  |   | 1     |              | 61          | Ц        | <u> </u>  | <u> </u>                               | <u> </u>                            | Ш         |          |          |         | $\sqcup$ | ú   |       | 111      | Щ      | $\perp$ | $\downarrow$  |   |        |        |          |               | $\perp$        |
|          | 12          | $oxed{oxed}$    |  | <u> </u>     | L.                                     | <u> </u>                            | <u></u>           |                                     | Ш  |   |       |              | 62          | Ц        | <u> </u>  |  | <u> </u>                            | Ш         | _        | _        | $\perp$ | $\sqcup$ |     |       | 112      | Ш      | _       | ightharpoonup |   |        |        | $\Box$   | $\dashv$      | Ш              |
| <u></u>  | 13          | $oxed{igspace}$ | $oxed{oxed}$                                 | ↓_           |  |                                     | <u> </u>          | L_                                  | Щ  |   | 1     |              | 63          | Щ        | oxdot   | L_                                     | 匚                                   | Ш         |          |          |         |          |     |       | 113      | Щ      | $\perp$ | _             |   |        |        | $\sqcup$ |               | $\square$      |
|          | 14          | <u> </u>        | <u> </u>                                     | ļ            | _                                      |                                     |                   |                                     |    |   | Ι.    |              | 64          | Ц        | $ldsymbol{ld}}}}}}$ |  | $oxed{oxed}$                        | Ш         |          | _        |         | _        | - 1 |       | 114      |        |         | _             |   |        | Ш      | Ц        |               | Ш              |
|          | 15          | <u> </u>        | <u> </u>                                     | <u> </u>     | $oldsymbol{oldsymbol{oldsymbol{eta}}}$ |                                     | L                 | L.                                  | Ш  |   |       | L            | 65          | Ц        | $oxed{oxed}$  |  | $ldsymbol{f eta}$                   | Ш         | _        |          | $\perp$ | Ц        | . ] |       | 115      | $\Box$ |         | ightharpoonup |   |        |        | Ц        | ightharpoonup | ᆸ              |
|          | 16          | L               | L  | _            | _                                      | L                                   | L_                | <u> </u>                            |    |   |       |              | 66          | Ц        | ┖   |  | <u> </u>                            |           | _        | _        |         | ╝,       |     |       | 116      |        |         |               |   |        |        | _        | _             | ᅵ              |
|          | 17          | ┖               |  |              | _                                      | L                                   |                   |                                     |    |   |       |              | 67          | Ц        | _   |  | L                                   |           |          | _        | $\perp$ | _        |     |       | 117      |        |         |               |   |        |        |          | _             | _              |
| <u></u>  | 18          | L               | 乚  | <u> </u>     |  | L                                   | L                 |                                     |    |   |       |              | 68          | J        | <u> </u>  | _                                      |                                     |           |          |          |         | ;        | 1 1 |       | 118      |        |         | _             |   |        |        |          | _             | _              |
| <u></u>  | 19          |                 | L  | L            | L                                      | L                                   |                   | L                                   |    |   |       |              | 69          |          |   |  |                                     |           | $\Box$   |          | $\perp$ | _        |     |       | 119      |        |         | _             |   |        |        |          | _             | $\Box$         |
|          | 20          |                 |  | L            |  |                                     |                   |                                     |    |   | 4     |              | 70          | <u> </u> |   | L                                      |                                     |           |          |          |         |          |     |       | 120      |        |         |               |   |        |        |          | $\Box$        | $\Box$         |
| L        | 21          |                 |  |              |  |                                     |                   |                                     |    |   | 1     |              | 71          |          |   |  |                                     |           |          |          |         |          | 1   |       | 121      |        |         | $\perp$       |   |        | Ш      |          |               | $\Box$         |
| L        | 22          |                 |  | L            | L                                      | L                                   |                   | L                                   |    |   |       |              | 72          |          | L   | L                                      |                                     |           |          |          |         |          |     |       | 122      |        |         |               |   |        |        |          |               |                |
|          | 23          |                 | <u> </u>                                     |              |  |                                     |                   |                                     | Ш  |   | ť.    |              | 73          |          |   |  |                                     |           | $\Box$   | $\perp$  |         |          |     |       | 123      |        |         | $\bot$        |   |        |        |          | _             | $\Box$         |
|          | 24          |                 |  |              | L                                      | Ŀ                                   |                   |                                     |    |   |       |              | 74          |          |   |  |                                     |           |          | $\perp$  |         | _:       | ,   |       | 124      |        |         |               |   |        |        |          |               |                |
|          | 25          |                 |  |              | L                                      |                                     |                   |                                     |    |   | -     |              | 75          |          | L   |  |                                     |           |          |          |         |          | - 1 |       | 125      |        |         |               | _ | $\Box$ |        |          |               |                |
|          | 26          | 丄               |  | L            | <u> </u>                               | _                                   |                   | L.                                  |    |   |       |              | 76          | _        | <u> </u>  | L.                                     |                                     |           | _        |          |         | _        |     |       | 126      |        |         | ┙             |   |        |        |          |               | $\Box$         |
|          | 27          | 上               | L  | $oxed{oxed}$ | L                                      |                                     | L                 |                                     |    |   |       |              | 77          |          | <u> </u>  |  |                                     |           |          | $\perp$  |         | _i       | 1.0 |       | 127      |        |         | _             | _ | _      |        |          |               |                |
|          | 28          |                 | L  |              | <u> </u>                               |                                     | _                 |                                     |    |   |       |              | 78          | L        | <u> </u>  |  |                                     |           | _        | _        | _       | ┙        |     |       | 128      |        |         |               |   |        |        | _        | _             |                |
|          | 29          |                 | <u> </u>                                     |              | L                                      | _                                   | _                 | _                                   |    |   |       | i            | 79          | _        | L   |  |                                     |           |          | _        |         | ╛        |     |       | 129      |        |         | $\downarrow$  |   | _      |        | _        | _             | $\square$      |
|          | 3≬          |                 | L  | $oxed{oxed}$ |  |                                     |                   |                                     |    |   |       |              | 80          |          | L   |  |                                     |           | $\perp$  | $\perp$  |         | _        |     |       | 130      | *      | $\perp$ |               |   | ٠      |        |          | ightharpoonup | Ш              |
|          | 3           | ᆫ               | <u> </u>                                     |              |  | <u>L</u>                            | ٠.                |                                     |    |   |       |              | 81          |          | <u> </u>  | <u> </u>                               |                                     |           | $\dashv$ |          |         | _        |     |       | 131      |        | $\perp$ | $\perp$       | _ |        |        | [        | _             |                |
|          | 32          |                 | <u> </u>                                     | L.           | <u> </u>                               | _                                   |                   |                                     |    |   |       |              | 82          |          | <u> </u>  | <u> </u>                               |                                     |           | _        |          |         | _        |     |       | 132      |        |         | $\perp$       |   |        |        | _        |               |                |
|          | 33          | L               | <u>L</u>                                     | _            |  |                                     | <u> </u>          |                                     |    |   | upped |              | 83          |          | _   |  |                                     |           | _        |          |         | _        |     |       | 133      |        |         | _             |   |        | .      |          | _             |                |
|          | 34<br>35    | <u> </u>        | L_   | L            | _                                      | L_                                  | L_                |                                     | Щ  |   |       | L            | 84          |          | _   |  | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | $\sqcup$  |          |          | _       | _        |     |       | 134      |        | $\perp$ | 4             |   |        |        |          |               | ᅵ              |
| L        | 35          | <u> </u>        | L_   | L            | _                                      | 匚                                   |                   |                                     | Ш  |   |       |              | 85          |          | _   | _                                      | <u> </u>                            | $\Box$    | $\perp$  |          | _       | _        | ý.  |       | 135      | Ш      | $\perp$ | 4             | _ |        |        |          |               | $\Box$         |
|          | 36          | <u> </u>        | _  | $oxed{oxed}$ | $oldsymbol{oldsymbol{oldsymbol{eta}}}$ | Ц_                                  | _                 | <u> </u>                            | Ш  |   |       |              | 86          |          | <u> </u>  | <u> </u>                               |                                     | Щ         | _        | _        | $\perp$ | ┙        | •   |       | 136      | $\Box$ |         | $\dashv$      |   |        |        | $\dashv$ |               | 凵              |
|          | 37          | 辶               | _  | L            | $ldsymbol{f eta}$                      | L                                   | L                 | <u> </u>                            | Ш  |   |       |              | 87          | L        | <u> </u>  | $oldsymbol{oldsymbol{oldsymbol{eta}}}$ | L                                   | Ш         | _        |          | $\perp$ | ┙        | . : |       | 137      |        | $\perp$ | 4             |   |        |        | ļ        |               | ᅵ              |
| <u></u>  | 38          | L_              | <u> </u>                                     | <u> </u>     | $oldsymbol{oldsymbol{oldsymbol{eta}}}$ | <u> </u>                            | L                 | <u> </u>                            | Ш  |   |       |              | 88          | L        | 上   | <u> </u>                               | Ш                                   | Ш         | _        |          | $\perp$ | $\sqcup$ |     |       | 138      |        |         | $\dashv$      |   |        |        | $\perp$  |               | $\blacksquare$ |
| L        | 39          | oxdot           |  | <u> </u>     | <u> </u>                               |                                     |                   |                                     | Щ  |   |       | $oxed{oxed}$ | 89          |          | $oxdapsymbol{oxed}$   | <u> </u>                               | Щ                                   | Ш         | _        | _        | $\perp$ | ┙        |     |       | 139      |        |         | $\dashv$      |   |        | $\Box$ | $\Box$   |               | Ц              |
|          | 40          | L               | <u> </u>                                     |              | <u> </u>                               |                                     | _                 | L                                   | Ш  |   |       | $oxed{oxed}$ | 90          |          | <u>L</u>  | $oxed{\Box}$                           |                                     | Щ         |          | [        |         | ╛        |     |       | 140      |        |         | $\dashv$      |   |        |        | ļ        | ᆚ             | ᅵ              |
|          | 41          | <u> </u>        | _  | <u> </u>     | $ldsymbol{ldsymbol{ldsymbol{eta}}}$    | <u> </u>                            |                   | L_                                  | Ш  |   |       | $oxed{oxed}$ | 91          |          | oxdapsilon  |  | Ш                                   | Ш         | _        | $\dashv$ | $\perp$ | ╝        | į   |       | 141      |        | $\perp$ | $\dashv$      |   |        |        |          |               |                |
|          | 42          | <u> </u>        | _  | <u> </u>     | $oxed{oxed}$                           |                                     |                   | <u> </u>                            | Ш  |   |       | igsquare     | 92          |          | <u> </u>  |  |                                     | Щ         | ļ        |          | $\perp$ | ╝        |     |       | 142      |        |         | $\dashv$      |   |        |        |          |               | _              |
| L        | 48          | <u> </u>        |  | <u> </u>     | ऻ_                                     | $\sqcup$                            | <u> </u>          | Щ                                   | Щ  |   |       | igsquare     | 93          |          | <b>—</b>  | lacksquare                             | Щ                                   | Щ         | _        | _        | $\bot$  | _[       | ļ   |       | 143      | $\Box$ |         | $\dashv$      |   |        |        | _        | _             | _              |
|          | 44          | <u>L</u>        | _  | L            | ㄴ                                      |                                     | <u> </u>          | <u> </u>                            | Ш  |   |       |              | 94          | _        | <u> </u>  |  | _                                   | $\square$ | _        | _        | $\perp$ | 4        | ļ   |       | 144      |        | $\perp$ | 4             | _ |        |        |          | _             | _              |
|          | 45          | <u></u>         |  | oxdot        | <u> </u>                               |                                     | L                 | <u> </u>                            | Ш  |   |       |              | 95          |          | <u> </u>  | <u> </u>                               | Ш                                   | Ш         |          | _        | _       | 4        | ļ   |       | 145      | Ш      |         | 4             | _ | ,      | _      |          | _             | $\blacksquare$ |
| <u> </u> | 46          | _               |  | Ь.           | <u> </u>                               | <u> </u>                            | $ldsymbol{f eta}$ |                                     | Ш  | _ |       |              | 96          |          | <u> </u>  | $ldsymbol{ldsymbol{ldsymbol{eta}}}$    | $\square$                           | Щ         | _        |          |         | ╝        | ļ   |       | 146      | Ц      |         | 4             | _ |        |        |          | _             | $\dashv$       |
|          | 47          | _               | L_   | L.           | <u> </u>                               |                                     | 匚                 | $oxed{oxed}$                        | Ш  |   |       | $oxed{oxed}$ | 97          |          | <u> </u>  | $ldsymbol{f eta}$                      | Ш                                   | Щ         | ļ        |          | $\perp$ | _        | ļ   |       | 147      | $\Box$ |         | 4             | _ |        |        |          |               |                |
|          | 48          |                 | L  | _            | $\perp$                                | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | 匚                 | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | Ш  |   |       |              | 98          |          | $ldsymbol{ldsymbol{ldsymbol{eta}}}$   | L                                      |                                     |           | _        |          | 4       | _        |     |       | 148      |        | $\perp$ |               | _ | _      |        |          | $\Box$        |                |
| L        | 49          | <u> </u>        | /  | <u></u>      | Ш                                      | L_                                  | L                 | L.                                  | Ш  |   |       |              | 99          |          | <u> </u>  | $ldsymbol{f eta}$                      |                                     |           |          |          | $\perp$ | ┙        |     |       | 149      |        |         | _[            |   |        |        |          |               |                |
|          | 50          | ارا             | 1  |              |  |                                     |                   |                                     | ΙÏ | Ī |       |              | 100         |          |   |  |                                     | I         |          |          |         | - [      |     |       | 150      |        | [       | ſ             | Ī | I      | I      |          |               | 1              |